

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/984,560	12/03/97	MAILLOUX	J 95-0653.01

021186 TM02/0213  
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EXAMINER

KIM, H

ART UNIT

PAPER NUMBER

2185

DATE MAILED:

02/13/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

## Office Action Summary

Application No.	08/984,560	Applicant(s)	Mailoux
Examiner	H. Kim	Group Art Unit	2185

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

### Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3 (thru) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

### Status

Responsive to communication(s) filed on 11/24/00, RCE.

This action is FINAL.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

### Disposition of Claims

Claim(s) 11-21, 59, 60, + 61 is/are pending in the application.

Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

Claim(s) \_\_\_\_\_ is/are allowed.

Claim(s) 11-21, 59, 60, + 61 is/are rejected.

Claim(s) \_\_\_\_\_ is/are objected to.

Claim(s) \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.

The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

### Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). 12 + 18

Notice of References Cited, PTO-892

Notice of Draftsperson's Patent Drawing Review, PTO-948

Interview Summary, PTO-413

Notice of Informal Patent Application, PTO-152

Other \_\_\_\_\_

## Office Action Summary

**Detailed Action**

***Request for Continued Examination***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/24/00 has been entered.

2. Claims 11-21 and 59-61 are presented for examination. This office action is in response to the RCE filed on 11/24/00.

***Claim Objections***

3. The objection to the claims has been withdrawn because of amendment.

4. Claims 11, 59, 60, and 61 are objected to under 37 CFR 1.75(b) as not substantially differing from each other.

The claims as written do not appear to be substantially different or to provide substantially different patent protection.

Applicants are required to 1) cancel the objected to claims, (2) amend the claims so that they are substantially different from any other claims, or (3) provide sufficient reasons why the

claims as presently written are substantially different or provide substantially different patent protection.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 USC § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claims 11-21 and 59-61 are rejected under 35 USC 102(b) as being anticipated by *Manning*, U.S. Patent 5,652,724.

As to claim 11, Manning discloses the invention as claimed. Manning discloses a storage device comprising: control logic for between a patternless addressing scheme and a patterned addressing scheme (Fig. 1 and col. 3 lines 27-45, col. 7 lines 35-64, & col. 10 lines 65+) and switching circuit for switching between a first pathway and a second pathway (Fig. 1, col. 7 lines 35 + and col. 10 lines 65+ ).

As to claim 12, Manning further discloses the storage device is asynchronous (Fig. 1 and EDO constitutes asynchronous memory, col. 3 line 34).

As to claim 13, Manning further discloses temporary buffer (Fig. 1 Refs. 18 and 34).

As to claim 14, Manning further discloses the external address is temporarily stored in the temporary storage device prior to being sent to a decoder (Fig. 1 Refs. 18).

As to claim 15, Manning further discloses counter (Fig. 1 Refs. 40 and 26).

As to claim 16, Manning further discloses the internal address is provided to temp storage device through the switching circuitry (Fig. 1 Refs. 38, 40, 26, 30).

As to claim 17, Manning further discloses a pipeline mode (col. 3 lines 28-29 and lines 41-43).

As to claim 18, Manning further discloses a burst mode (col. 3 lines 37-40).

As to claim 19, Manning further discloses muxes (Fig. 3 Ref. 56 and 58).

As to claim 20, Manning further discloses patternless addressing scheme is for random

CAS (col. 3 lines 28-30 & 40-43) and the patterned addressing scheme is for sequence CAS (Fig. 1 Refs. 26 & 30 and col. 7 line 35).

As to claim 21, Manning further the sequence CAS is selected from a group consisting of interleaved (col. 1 line 64) and linear column address access (Fig. 1 Refs. 18 & 34 and col. 3 lines 17-19 & col. 4 line 35).

As to claims 59 and 60, Manning discloses the invention as claimed. Manning discloses a memory device, comprising:

a memory array (Fig. 1 Ref. 12);  
control logic operatively connected to the memory array, the control circuit for selecting between an unpatterned pipeline (col. 3 lines 41-44 and col. 7 lines 45-46) and a patterned burst data pattern (col. 3 lines 37-39, col. 7 lines 48-49, and col. 10 lines 65+) for accessing the memory array; and switching circuit for switching between a first, burst data pathway and a second, pipeline data pathway depending on which of the burst or pipeline modes of operation is selected (Fig. 1, col. 7 lines 35 +, and col. 10 lines 65+).

As to claim 61, Manning discloses the invention as claimed above. Manning further discloses a column address decoder for receiving an external column address (Fig. 1 Ref. 30).

*Conclusion*

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. 1996 DRAM Data Book, Micron, pp 5-75 and 7-62.

8. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 USC 133, MPEP 710.02, 710.02(b)).

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

10. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art

disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. § 1.111(c).

11. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hong Kim whose telephone number is (703) 305-3835. The Examiner can normally be reached on the weekdays from 8:30 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Do Yoo, can be reached on (703) 308-4908.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

13. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

or faxed to:

(703) 308-9051-2, (for formal communications intended for entry)

Or:

Serial Number: 08/984,560  
Art Unit: 2185

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Paper No.19

(703) 305-9731 (for informal or draft communications, please label  
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal  
Drive, Arlington, VA., Sixth Floor (Receptionist).

HK  
Patent Examiner  
February 10, 2001

*Henry Kim*